

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/577,084
Source: IFWP
Date Processed by STIC: 05/09/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,084

TIME: 10:55:56

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

```

3 <110> APPLICANT: METABOLIC EXPLORER
5 <120> TITLE OF INVENTION: Strains of microorganisms optimized for biosynthetic
pathways consuming
6     NADPH
8 <130> FILE REFERENCE: D21726
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/577,084
C--> 10 <141> CURRENT FILING DATE: 2006-04-24
10 <150> PRIOR APPLICATION NUMBER: FR 0313056
11 <151> PRIOR FILING DATE: 2003-11-06
13 <160> NUMBER OF SEQ ID NOS: 38
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 100
19 <212> TYPE: DNA
20 <213> ORGANISM: artificial sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
25 <400> SEQUENCE: 1
26 ggtgcgcgcg tcgcagttat cgagcggttat caaaatggtg gcggcggttg caccactgg      60
28 ggcaccatcc cgtcgaaagc catatgaata tcctccttag      100
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 100
33 <212> TYPE: DNA
34 <213> ORGANISM: artificial sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
39 <400> SEQUENCE: 2
40 cccagaatct cttttgtttc ccgatggaac aaaattttca gcgtgcccac gttcatgccg      60
42 acgatttggtg cgcgtgccag tgtaggctgg agctgcttcg      100
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 30
47 <212> TYPE: DNA
48 <213> ORGANISM: artificial sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
53 <400> SEQUENCE: 3
54 ggccgctcag gatatagcca gataaatgac      30
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 30
59 <212> TYPE: DNA
60 <213> ORGANISM: artificial sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
65 <400> SEQUENCE: 4

```

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,084

TIME: 10:55:56

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

```

66 gcgggatcac ttactgccca gcgctggctg 30
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 100
71 <212> TYPE: DNA
72 <213> ORGANISM: artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
77 <400> SEQUENCE: 5
78 ggtggcccg aagtacttca agccgtagag ttactcctg ccgatccggc ggagaatgaa 60
80 atccaggtcg aaaataaagc catatgaata tcctccttag 100
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 100
85 <212> TYPE: DNA
86 <213> ORGANISM: artificial sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
91 <400> SEQUENCE: 6
92 cgcccggtt tccagaatct catgcgcacg ctgcgcatcc ttcagcggat atttctgctg 60
94 ctcggcgaca tcgaccttaa tgtaggctgg agctgcttcg 100
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 30
99 <212> TYPE: DNA
100 <213> ORGANISM: artificial sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
105 <400> SEQUENCE: 7
106 cgcccaacac cgactgctcc gcttcgatcg 30
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 30
111 <212> TYPE: DNA
112 <213> ORGANISM: artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
117 <400> SEQUENCE: 8
118 cagcggttatg accgctggcg ttactaaggg 30
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 43
123 <212> TYPE: DNA
124 <213> ORGANISM: artificial sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
129 <400> SEQUENCE: 9
130 acgtacgtgg catatgtcag ttttcgtttc aggtgctaac ggg 43
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 44
135 <212> TYPE: DNA
136 <213> ORGANISM: artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide

```

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,084

TIME: 10:55:56

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

```

141 <400> SEQUENCE: 10
142 acgtacctgc agttatatc tgcctcaaa ttttaaatt tggg 44
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 100
147 <212> TYPE: DNA
148 <213> ORGANISM: artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
153 <400> SEQUENCE: 11
154 ccaacgcaga ccgctgcctg gcaggcacta cagaaacact tcgatgaaat gaaagacgtt 60
156 acgategccg atctttttgc tgtaggctgg agctgcttcg 100
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 100
161 <212> TYPE: DNA
162 <213> ORGANISM: artificial sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
167 <400> SEQUENCE: 12
168 gcgccacgct ttatagcgtt taatcagacc attggctcag ctatcgtggc tgctgatttc 60
170 tttatcatct ttcagctctg catatgaata tcctccttag 100
173 <210> SEQ ID NO: 13
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: artificial sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
181 <400> SEQUENCE: 13
182 gcggggcggt tgtcaacgat ggggtcatgc 30
185 <210> SEQ ID NO: 14
186 <211> LENGTH: 30
187 <212> TYPE: DNA
188 <213> ORGANISM: artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
193 <400> SEQUENCE: 14
194 cggtatgatt tccgttaaatt tacagacaag 30
197 <210> SEQ ID NO: 15
198 <211> LENGTH: 102
199 <212> TYPE: DNA
200 <213> ORGANISM: artificial sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
205 <400> SEQUENCE: 15
206 cgcgcgagac tcgctctgct tatctcgccc ggatagaaca agcgaaaact tcgaccgttc 60
208 atcgttcgca gttggcatgc ggtgtaggct ggagctgctt cg 102
211 <210> SEQ ID NO: 16
212 <211> LENGTH: 98
213 <212> TYPE: DNA
214 <213> ORGANISM: artificial sequence

```

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,084

TIME: 10:55:56

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

```

216 <220> FEATURE:
W--> 217 <213> ORGANISM: artificial sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
222 <400> SEQUENCE: 16
223 cgcaaggcgc tgaataattc acgtcctgtt cccacgcgtg acgcgctcag gtcaggaatg      60
225 tgcggttcgc gagcagccca tatgaatatc ctcttag      98
228 <210> SEQ ID NO: 17
229 <211> LENGTH: 29
230 <212> TYPE: DNA
231 <213> ORGANISM: artificial sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
236 <400> SEQUENCE: 17
237 gggtagactc cattactgag gcgtgggcg      29
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 24
242 <212> TYPE: DNA
243 <213> ORGANISM: artificial sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
248 <400> SEQUENCE: 18
249 ccccggaatc agaggaatag tccc      24
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 100
254 <212> TYPE: DNA
255 <213> ORGANISM: artificial sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
260 <400> SEQUENCE: 19
261 ggtgtgttga caagcggcgg tgatgcgcca ggcataaacg ccgcaattcg cggggttgtt      60
263 cgttctgcgc tgacagaagg ttaggctgg agctgcttcg      100
266 <210> SEQ ID NO: 20
267 <211> LENGTH: 100
268 <212> TYPE: DNA
269 <213> ORGANISM: artificial sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
274 <400> SEQUENCE: 20
275 ttcgcgcagt ccagccagtc acctttgaac ggacgcttca tgttttcgat agcgtcgaag      60
277 atgtcgtggt gaaccagctg catatgaata tcctccttag      100
280 <210> SEQ ID NO: 21
281 <211> LENGTH: 27
282 <212> TYPE: DNA
283 <213> ORGANISM: artificial sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
288 <400> SEQUENCE: 21
289 cgcacgcggc agtcagggcc gaccgc      27

```

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,084

TIME: 10:55:56

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

```

292 <210> SEQ ID NO: 22
293 <211> LENGTH: 27
294 <212> TYPE: DNA
295 <213> ORGANISM: artificial sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
300 <400> SEQUENCE: 22
301 ccctacgccc cacttggtca tcgcccg 27
304 <210> SEQ ID NO: 23
305 <211> LENGTH: 99
306 <212> TYPE: DNA
307 <213> ORGANISM: artificial sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
312 <400> SEQUENCE: 23
313 gcgccctctc tcgatagcgc aacaattacc ccgcaaattt atcccgaagg aaaactgcgc 60
315 tgtaccgcac cgggtgtcgt gtaggctgga gctgcttcg 99
318 <210> SEQ ID NO: 24
319 <211> LENGTH: 100
320 <212> TYPE: DNA
321 <213> ORGANISM: artificial sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
326 <400> SEQUENCE: 24
327 gcgggaaagg taagcgtaaa ttttttgctg atcgctcatgg gagcacagac gtgttcctg 60
329 attgagtgtg gctgcactcc catatgaata tcctccttag 100
332 <210> SEQ ID NO: 25
333 <211> LENGTH: 30
334 <212> TYPE: DNA
335 <213> ORGANISM: artificial sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
340 <400> SEQUENCE: 25
341 tggcaggatc atccatgaca gtaaaaacgg 30
344 <210> SEQ ID NO: 26
345 <211> LENGTH: 26
346 <212> TYPE: DNA
347 <213> ORGANISM: artificial sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
352 <400> SEQUENCE: 26
353 gccggttgca ctttggttaa gccccg 26
356 <210> SEQ ID NO: 27
357 <211> LENGTH: 43
358 <212> TYPE: DNA
359 <213> ORGANISM: artificial sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: Other information : synthetic oligonucleotide
364 <400> SEQUENCE: 27

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/577,084

DATE: 05/09/2006

TIME: 10:55:57

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\05092006\J577084.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:217 M:280 W: Numeric Identifier already exists, Organism not replaced.